



# Risk to Mission



HAZARD / THREAT	ASSESS D RAC	RISK CONTROLS & MITIGATION	REVISE D RAC	SUPERVISION

<b>Probability</b>	<b>A</b> : Likely to occur immediately or within a short period of time <b>B</b> : Probably will occur <b>C</b> : May occur in time <b>D</b> : Unlikely to occur
<b>Severity</b>	<b>I</b> : May cause death, loss of facility/asset, mission failure <b>II</b> : May cause severe injury, illness, property damage, mission degradation <b>III</b> : May cause minor injury, illness, property damage, mission degradation <b>IV</b> : Minimal Threat, no impact to mission success

		Probability			
		A	B	C	D
Severity	I	1	1	2	3
	II	1	2	3	4
	III	2	3	4	5
	IV	3	4	5	5

RAC
<b>1 - CRITICAL</b>
<b>2 - SERIOUS</b>
<b>3 - MODERATE</b>
<b>4 - MINOR</b>
<b>5 - NEGLIGIBLE</b>



# Risk to Force



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HAZARD / THREAT	ASSESS D RAC	RISK CONTROLS & MITIGATION	REVISE D RAC	SUPERVISION
Hazard	A,I = 1	•Control •Control	D,I = 3	•Monitor •Supervise
	A,II = 1		C,II = 3	
* For this template only, all RACs are illustrated in order to copy and paste	B,I = 1	** The HIGHEST (most critical) RAC should be listed first for brief standardization	B,IV = 4	
	A,III = 2		C,III = 4	
	B,II = 2		D,II = 4	
	C,I = 2		C,IV = 5	
	B,III = 3		D,III = 5	
	A,IV = 3		D,IV = 5	

<b>Probability</b>	<b>A:</b> Likely to occur immediately or within a short period of time <b>B:</b> Probably will occur <b>C:</b> May occur in time <b>D:</b> Unlikely to occur
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# ORM Slide - Guide



The **HIGHEST** (most critical) RAC should be **listed first** for brief standardization

List Hazard - one to each table cell

List the Risk Assessment Code (RAC) for each Hazard

List Controls used to mitigate each Hazard. Units should establish a Lessons Learned & Best Practices repository.

The table will word wrap your input - use additional slides or delete rows

Do not change the format of the ORM key - it is imbedded as an object and should not be moved or altered

Briefs requiring ORM will include a minimum of **TWO** slides: Risk to Mission and Risk to Force (**Mission slide ALWAYS first**)

After evaluating the expected effects of the selected controls, re-assess the remaining risk and determine a **REVISED RAC SUPERVISION**

- What supervisory actions will mitigate the **RESIDUAL** (accepted) risk? ID the individuals required to satisfactorily supervise.
- How will you monitor risk control implementation?
- How will you assess effectiveness of controls in place?

possible RAC values are illustrated to copy and paste

An overall RAC or Risk evaluation **is not desired**. HOWEVER, if one is noted, it should be the **HIGHEST RAC** identified

*Risk to Mission*

HAZARD / THREAT	ASSESSED RAC	RISK CONTROLS & MITIGATION	REVISED RAC	SUPERVISION

<b>Probability</b> A: Likely to occur immediately or within a short period of time B: Probably will occur C: May occur in time D: Unlikely to occur		<b>RAC</b> 1. CRITICAL 2. SERIOUS 3. MODERATE 4. MINOR 5. NEGLIGIBLE	
<b>Severity</b> I: May cause death, loss of battle power, mission failure II: May cause severe injury, illness, property damage, mission degradation III: May cause minor injury, illness, property damage, mission degradation IV: Minimal threat, no impact to mission success		<b>UNCLASSIFIED</b> Warfighting First, Move Forward, Be Ready	



# ORM Slide & Brief Tools



- Use the following to copy and paste RACs:

A,I = 1	C,I = 2
A,II = 1	C,II = 3
A,III = 2	C,III = 4
A,IV = 3	C,IV = 5
B,I = 1	D,I = 3
B,II = 2	D,II = 4
B,III = 3	D,III = 5
B,IV = 4	D,IV = 5

- The Risk Matrix information below is grouped into a single object to copy and paste:

<b>Probability</b>	<b>A:</b> Likely to occur immediately or within a short period of time <b>B:</b> Probably will occur <b>C:</b> May occur in time <b>D:</b> Unlikely to occur
<b>Severity</b>	<b>I:</b> May cause death, loss of facility/asset, mission failure <b>II:</b> May cause severe injury, illness, property damage, mission degradation <b>III:</b> May cause minor injury, illness, property damage, mission degradation <b>IV:</b> Minimal Threat, no impact to mission success

		Probability			
		A	B	C	D
Severity	I	1	1	2	3
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# ***Lessons Learned***

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- **CSG-4 recommends a slide with incorporated Lessons Learned clearly stated**
- **Assessment Cell recommendations for a particular event should also be included**



# ***Example of Unit Seam Analysis***



# ***Context and Desired Outcomes***

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## **Context / Assumptions**

- **Conduct an inbound, daytime transit passage of the Beryl Strait on DDMMYY**
- **Posture is *Maintain***
- **Reviewed Beryl Strait (BS) Lessons Learned:**
  - USS Ship BS Inbound (DDMMYY)
  - USS Ship BS Inbound (DDMMYY)
  - USS Ship BS Outbound (DDMMYY)
  - USS Ship BS Outbound (DDMMYY)
  - CSG Inbound (DDMMYY)
  - CSG Outbound (DDMMYY)
  - USS Ship BS Outbound (DDMMYY)

## **Desired Outcomes**

- **Professional, safe ingress of BS without escalation of tensions**





# Risk to Mission - LFE



HAZARD / THREAT	ASSESSED RAC	RISK CONTROLS & MITIGATION	REVISED RAC	SUPERVISION
Range Fouled	C, I = 2	<ul style="list-style-type: none"><li>Range visually, electronically, and acoustically cleared</li><li>Multiple paths to communicate with foulers</li><li>PMAP conducted</li><li>Security calls on BTB Ch 16</li><li>MH-60R airborne for range clearance</li></ul>	D, 1 = 3	<ul style="list-style-type: none"><li>CO/XO supervision from controlling stations</li><li>Watch teams supervisors on station (TAO, CIC Watch Sup, OOD)</li></ul>
Combat Systems Casualty	C, I = 2	<ul style="list-style-type: none"><li>Combat Systems Configurations</li><li>Proper maintenance performed</li></ul>	D, 1 = 3	<ul style="list-style-type: none"><li>CO</li><li>CSO</li><li>TAO / PWO</li></ul>
Poor Visibility / Sea State	C, III = 4	<ul style="list-style-type: none"><li>Safety Brief provided to all watchstanders</li><li>Safety observers on station</li><li>METOC providing real-time forecasting</li><li>No-Go criteria understood and complied with</li><li>Lookouts on station in proper attire</li><li>Ability to delay event</li></ul>	D, III = 5	<ul style="list-style-type: none"><li>CO/XO supervision from controlling stations</li><li>OOD</li></ul>

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Severity	<b>I</b> : May cause death, loss of facility/asset, mission failure <b>II</b> : May cause severe injury, illness, property damage, mission degradation <b>III</b> : May cause minor injury, illness, property damage, mission degradation <b>IV</b> : Minimal Threat, no impact to mission success

		Probability			
		A	B	C	D
Severity	I	1	1	2	3
	II	1	2	3	4
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# Risk to Mission - Strait Transit



HAZARD/THREAT	ASSESSED RAC	RISK CONTROLS & MITIGATION	REVISED RAC	SUPERVISION
Weapon Mishap	C,I = 2	<ul style="list-style-type: none"><li>• Maintain proper weapons posture</li><li>• Procedural compliance</li><li>• WEPS dept head verify only ammo on station; not loaded into weapons</li></ul>	D,I = 3	<ul style="list-style-type: none"><li>• Mount Captains oversight of weapons/ammo handling</li><li>• Two person integrity on weapons checks</li><li>• Training/procedural reviews</li></ul>
Collision	C,I = 2	<ul style="list-style-type: none"><li>• All topside maintain continuous lookout</li><li>• Use of radar and EO/IR</li><li>• Clear comms, decisive maneuvering</li><li>• Comply with COLREGS Rules of the Road</li><li>• Comply with Bail Out Plan</li><li>• Strict adherence to CONOPS</li><li>• Past training events (GRUSAIL, C2X)</li></ul>	D,I = 3	<ul style="list-style-type: none"><li>• CO/XO supervision</li><li>• Bridge/CIC Watch stander coordination</li><li>• Maintain and enforce communications</li></ul>
Submarine Attack	C,I = 2	<ul style="list-style-type: none"><li>• I &amp; W of activity</li><li>• Established PPRs</li></ul>	D,I = 3	<ul style="list-style-type: none"><li>• TAO executing PPRs</li><li>• I/Q providing updates</li><li>• Communications with CTF</li></ul>
Small Boat Attack	D,I = 3	<ul style="list-style-type: none"><li>• CSW mounts manned</li><li>• Armed Helo Escort</li><li>• Minimize personnel on deck</li></ul>	D,II = 4	<ul style="list-style-type: none"><li>• CO/XO supervision</li><li>• Bridge/CIC Watch stander coordination</li><li>• Maintain and enforce communications</li><li>• FPO maintaining centralized comms</li></ul>
Low Slow Flyer Attack	D,I = 3	<ul style="list-style-type: none"><li>• Utilize all assets for area surveillance/I&amp;W</li><li>• Maintain RAP</li><li>• LASSO appropriate asset</li><li>• Execute PPRs</li><li>• Prior training events (GRUSAIL, C2X)</li></ul>	D,II = 4	<ul style="list-style-type: none"><li>• W: OPTASK AMD</li><li>• CTPM</li><li>• Maintain Self Defense (CO)</li></ul>

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		Probability				Severity	<u>RAC</u>  1 - CRITICAL 2 - SERIOUS 3 - MODERATE 4 - MINOR 5 - NEGLIGIBLE
		A	B	C	D		
I	1	1	2	3			
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# Risk to Mission - Port Entrance



HAZARD / THREAT	Assessed RAC	RISK CONTROLS & MITIGATION	Revised RAC	SUPERVISION
Obstructed Channel / Port Entrance	C, I = 2	<ul style="list-style-type: none"><li>EOD / Diver sweep of entrance prior</li><li>Early Det observations of port</li><li>Pilot pickup MH-60S scout of channel</li></ul>	D, I = 3	<ul style="list-style-type: none"><li>CO / OPSO / CDO</li><li>SECO / CMAA</li><li>NCIS / Host nation Port Authority</li><li>MH-60S aircrew</li></ul>
ECP Penetration	C, I = 2	<ul style="list-style-type: none"><li>Armed Sentries and HN police</li><li>ECP funnels all personnel through one chokepoint</li><li>Flight deck overwatch of ECP</li></ul>	D, I = 3	<ul style="list-style-type: none"><li>CO / CDO</li><li>ATTWO / SECO</li><li>COG</li></ul>
Surveillance (Land)	A, IV = 3	<ul style="list-style-type: none"><li>Sentries / watchstanders / crewmembers</li><li>ATTWO on bridge</li><li>Watch stander training</li><li>In port PPRs</li></ul>	B, IV = 4	<ul style="list-style-type: none"><li>CO / CDO / ATTWO / SECO</li><li>COG</li><li>Mount Captains</li></ul>
Protest	C, III = 4	<ul style="list-style-type: none"><li>Sentries / HN police</li><li>Reactionary Force onboard</li><li>Watch stander training</li><li>In port PPRs</li></ul>	D, III = 5	<ul style="list-style-type: none"><li>CO / CDO</li><li>ATTWO / SECO</li><li>COG</li></ul>

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# Seam Analysis



MISSION	MAXIMUM RESIDUAL RISK	RISK CONTROLS & MITIGATION	SEAM ANALYSIS
LFE	Range Fouled - D, I = 3	<ul style="list-style-type: none"><li>• Range visually, electronically, and acoustically cleared</li><li>• Multiple paths to communicate with foulers</li><li>• PMAP conducted</li><li>• Security calls on BTB Ch 16</li><li>• MH-60R airborne for range clearance</li></ul>	- None. Not completing event will not impact follow-on transit and port visit (just an example, perhaps it does affect readiness down the road if they don't shoot).
LFE	Cmbt Sys Casualty - D, I = 3	<ul style="list-style-type: none"><li>• Combat Systems Configurations</li><li>• Proper maintenance performed</li></ul>	-Possible spillover to Strait Transit •RMP/RAP •Collision •Delay port entry
Strait Transit	Weapon Mishap - C, I = 2	<ul style="list-style-type: none"><li>• Maintain proper weapons posture</li><li>• Procedural compliance</li><li>• WEPS dept head verify only ammo on station; not loaded into weapons</li></ul>	-Potential to delay arrival (MEDEVAC, etc)
Strait Transit	Collision - C, I = 2	<ul style="list-style-type: none"><li>• All topside maintain continuous lookout</li><li>• Use of radar and EO/IR</li><li>• Clear comms, decisive maneuvering</li><li>• Comply with COLREGS Rules of the Road</li><li>• Comply with Bail Out Plan</li><li>• Strict adherence to CONOPS</li><li>• Past training events (GRUSAIL, C2X)</li></ul>	-Major impact to completion of transit and on-time arrival in port
Strait Transit	Sub Attack - C, I = 2	<ul style="list-style-type: none"><li>• I &amp; W of activity</li><li>• Established PPRs</li></ul>	-Major impact to completion of transit and on-time arrival in port
Port Entrance	Obstructed Channel / Port Entrance - C, I = 2	<ul style="list-style-type: none"><li>• EOD / Diver sweep of entrance prior</li><li>• Early Det observations of port</li><li>• Pilot pickup MH-60S scout of channel</li></ul>	-Major impact to completion of transit and on-time arrival in port



# (U) Risk to Mission / Force

## Overall: Serious



Severity	Probability			
	A	B	C	D
	I			R <sub>m</sub> - Collision R <sub>m</sub> - Weapon Mishap R <sub>m</sub> - Submarine Attack R <sub>m</sub> - Range Fouler
	II			R <sub>m</sub> - Weather*
	III			
	IV			

R<sub>m</sub> = Risk to Mission  
R<sub>f</sub> = Risk to Force

\* Include elements of both risk to mission

and risk to force

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